ACCESSORIES

UNIT AND LOOP ACCESSORIES

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To further improve comfort and convenience, ClimateMaster offers the following accessories

Water to Air

EarthPure® Electronic Air Cleaner

ClimateMaster's EarthPure® Polarized Media Electronic Air Cleaner installs directly into the 2"/1" filter rack of your ClimateMaster heat pump or air handler. The electronically enhanced media combines elements of both electronic and media air cleaners. It efficiently removes particles down to 0.3 microns and REMOVES ODORS.

Tranquility® Secondary Drain Pan

The ClimateMaster Secondary Drain Pan was designed specifically for Tranquility® Horizontal foot prints. This drain pan matches the unit perfectly for open ceiling applications and to meet required mechanical codes.

Tranquility® Unit Vibration Isolation Pad

High density rubber pad for quiet operation. The sound/ vibration isolation pad is ideal for second floor, pier and beam construction and attic installations.

Tranquility® Unit Stand

Compliment the ClimateMaster Tranquility® product line with a matching unit stand. This stand is ideal for areas that must have raised equipment to meet required mechanical codes.

Auxiliary/Electric Heater

Internally mounted in vertical cabinets. Externally mounted on horizontal cabinets. Sizes 15-20 kW AGM*A and 4-20 kW AGM*C include internal circuit breaker. ETL listed. Circuit fusing per UL/ NEC. Wiring harness connections included in residential units.

Flow Controller

Small Compact, proven design, easy to mount, urethane foam insulated to prevent condensation, includes factory supplied full flow service valves for easy loop charging, Uses double o-ring adaptor fittings for unit and loop connections. Gray polystyrene cabinet with black pumps. Composite 3-way valves. 230VAC pump(s).

Remote Thermostat Sensor

Outdoor or Remote Temperature Sensor

Water to Water

Anti-Scald Valve

Anti-scald valve be used in DHW systems where HWG set-point is 150°F

Accessory Pump Slaving Module

Allows a single flow controller to be controlled by 2 different units. Eliminates additional field wiring and extra relays.

SecureStart™ Compressor Soft Start Kit

Single phase compressors typically have starting inrush currents that range from five to seven times their normal running current. The SecureStart™ module is designed to reduce inrush current to the compressor by up to 75% and prevents lights dimming when the compressor starts up.

Accessory Compatibility

	Packaged				Split					Water-to-Water	
Accessories	**TE**	**TT**	**TZ**	**TS**	**TES**	**TEP**	**TTS**	**TTP**	**TAH**	**TMW**	**THW**
EarthPure® Polarized Media Electronic Air Cleaner	X	X	X	X					X		
Secondary Drain Pan	X	X	X	X							
Tranquility® Unit Vibration Isolation Pad	X	X	X	X	X		X				
Tranquility® Unit Stand	X	X	X	X	X		X				
Auxiliary Electric Heater	X	X	X	X					X		
Thermostats	X	X	X	X	X	X	X	X	X		
Remote/Outdoor Temperature Sensor	X	X	X	X	X	X	X	X			
ClimaDry™ Potentiometer Kit		X		X							
Anti Scald Valve	X	X	X	X	X	X	X	X		X	X
Accessory Pump Slaving Module		X		X	X		X			X	X
Secure Start Compressor Soft Start Kit	X	X	X	X	X	X	X	X		X	X
Remote Mount HWG (Desuperheater) Kit						X		X			

Thermostats

ATC32U01

Digital, communicating, programmable, 3-stage heat, 2-stage cool. Configure, monitor and diagnose system from thermostat.

ATP32U03/ATP32U04

Programmable, digital, 3 stage heat, 2 stage cool, auxiliary, fault LED. Use 04 with ClimaDry™ units.

ATA22U01

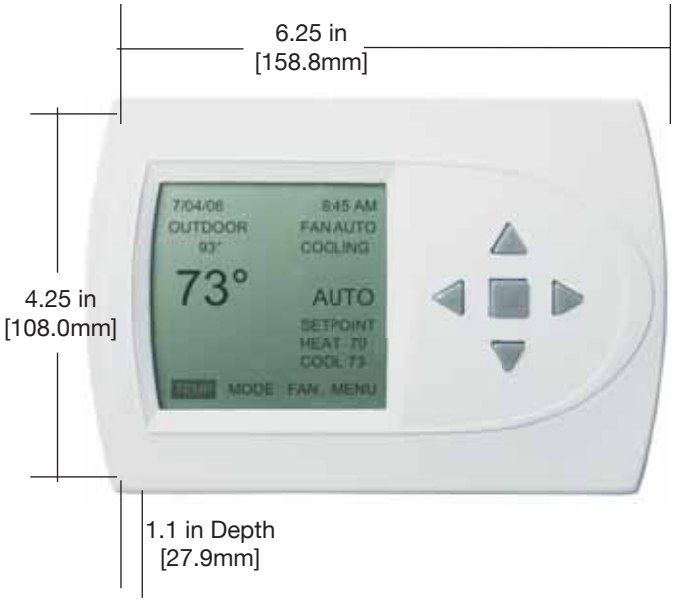
Non-programmable 2 stage heat, 2 stage cool; aux, emergency, fault LED

ACDU01

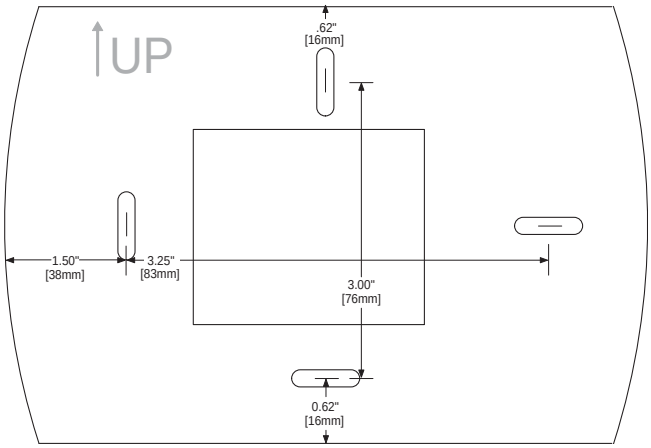
Configuration diagnostic tool. For use when communicating thermostat is not used.

ATU32U01 iGate™ Communicating Thermostat

Three-Stage Heat / Two-Stage Cool
Programmable



Mounting:



Application:

The ATC32U01 Communicating Thermostat provides 3 stages heating, 2 stages of cooling, and programmable temperature control of 24V water-source heat pump equipment. Allows 4-wire installation with communicating digital units and advanced configuration, monitoring, control and diagnostics on the thermostat.

Features:

- 4-Wire Communication with DXM2 or AXM2 UNITS
- Exclusive iGate™ System - Configuration, monitoring and diagnostics at thermostat:
  - Configure airflow, entering/leaving water, ΔT, accessories, unit type

Features (cont.):

  - Service warning: Fault condition, current system status (temp/flow) and possible causes displayed to home owner, to better inform dealer before site visit
  - Service mode: Once on site, in installer mode service personnel can see fault conditions, possible causes and temperature/flow/i/o conditions at the time of fault
  - Demand reduction - Programmed or triggered by external signal from utility company
- 7-day programming
- Programmable or non-programmable operation
- Four periods per day
- ºF or ºC temperature display
- 12 or 24 hour clock
- Individual heat and cool set points
- Zero temperature droop performance
- Automatic (program mode) or manual (HOLD) operation
- Convenient overrides allow temporary set point changes
- Selectable differential or proportional integral operation
- Set points are permanently held in memory (no batteries used) and retained during power outages
- Room temperature offset adjustment
- Progressive Recovery anticipates the time required to bring the space temperature to the next programmed event, and brings on the heat pump accordingly
- Large backlit dot matrix display is activated whenever a key is pressed and remains on for 25 seconds
- Menu-driven programming with five navigation buttons (UP/DOWN/LEFT/RIGHT/SELECT) for ease of use
- Fault indication with red backlight display
- Configurable service interval messages and servicing contractor contact information
- Keypad lockout
- Back-plate wiring connections for easy installation
- Compatible with AST008 sensor for use as remote and/or outdoor sensor
- Dual fuel capable

Specifications:

Electrical Rating:
- Input Power: 18 to 30 VAC, 50/60 Hz

Operating Conditions:
- 32ºF to 104ºF [0ºC to 40ºC]
- 10% to 95% non-condensing

Temperature Settings:
- Set point range: 40ºF to 90ºF [4ºC to 32ºC], +/- 2ºF [1ºC]
- Dehumidification set point range: 15% to 95% RH
- Humidification set point range: 10% to 45% RH

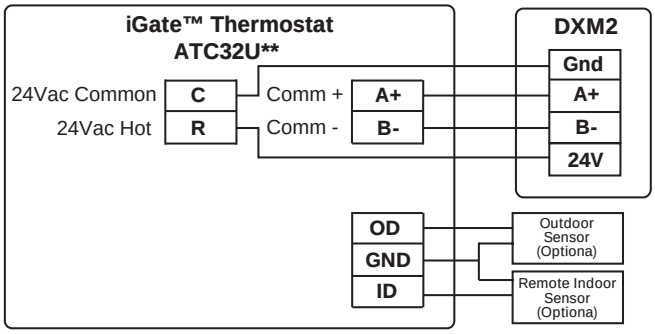
Output Ratings:
- Maximum current for each output is 1.0 Amp (2.0 max. output total).

ATU32U01 iGate™ Communicating Thermostat

Three-Stage Heat / Two-Stage Cool
Programmable

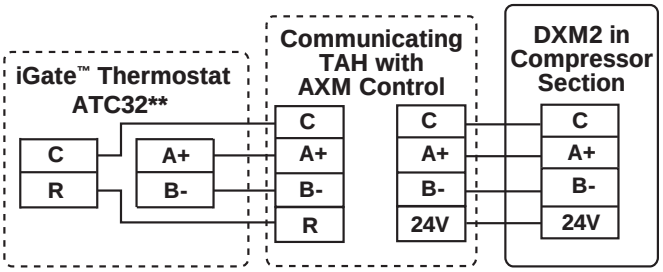
Packaged Units

iGate™ Communicating Thermostat Connection to DXM2 Control



Split Units

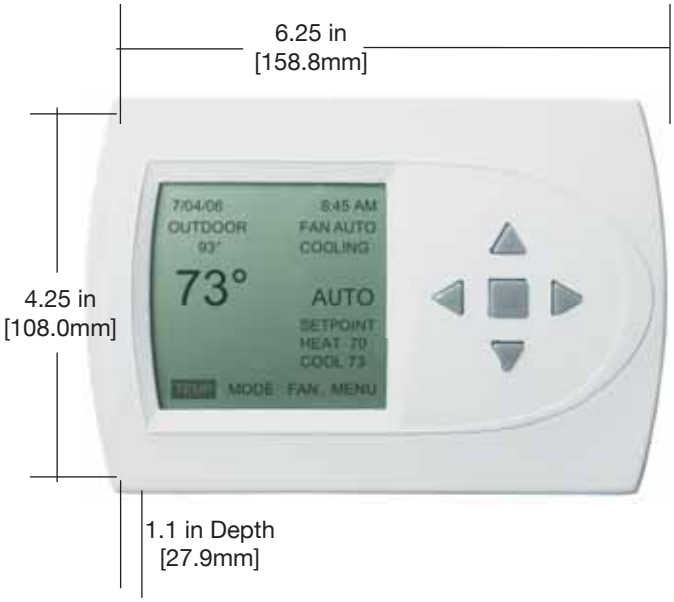
Connection to iGate™ communicating thermostat and AXM Communicating control in Tranquility® Digital Air Handler



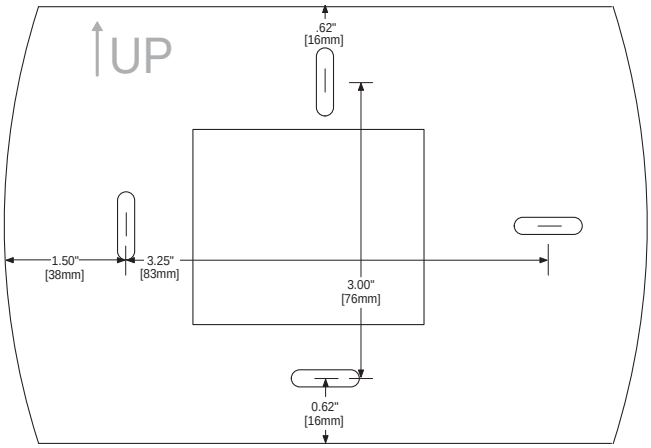
See equipment wiring diagram for more details

ATP32U03

Three Heat / Two Cool, Manual / Auto Changeover Programmable



Mounting:



Application:

The ATA32U03 Thermostat provides 3 stages heating, 2 stages of cooling, and programmable temperature control of 24V water-source heat pump equipment.

Features:

- 7-day programming
- Programmable or non-programmable operation
- Four periods per day
- ºF or ºC temperature display
- 12 or 24 hour clock
- Individual heat and cool set points
- Zero temperature droop performance
- Automatic (program mode) or manual (HOLD) operation
- Convenient overrides allow temporary set point changes
- Selectable differential or proportional integral operation

Features (cont.):

- Set points are permanently held in memory (no batteries used) and retained during power outages
- Room temperature offset adjustment
- Progressive Recovery anticipates the time required to bring the space temperature to the next programmed event, and brings on the heat pump accordingly
- Large backlit dot matrix display is activated whenever a key is pressed and remains on for 25 seconds
- Menu-driven programming with five navigation buttons (UP/DOWN/LEFT/RIGHT/SELECT) for ease of use
- Fault indication with red backlight display
- Configurable service interval messages and servicing contractor contact information
- Keypad lockout
- Back-plate wiring connections for easy installation
- Exclusive fault identification (When used with CXM or DXM) displays fault from CXM/DXM board (e.g. condensate overflow) and suggests possible causes
- Compatible with AST008 sensor for use as remote and/or outdoor sensor
- Dual fuel capable

Specifications:

Electrical Rating:

- Input Power: 18 to 30 VAC, 50/60 Hz

Operating Conditions:

- 32ºF to 104ºF [0ºC to 40ºC]
- 10% to 95% non-condensing

Temperature Settings:

- Set point range: 40ºF to 90ºF [4ºC to 32ºC], +/- 2ºF [1ºC]
- Dehumidification set point range: 15% to 95% RH
- Humidification set point range: 10% to 45% RH

Output Ratings:

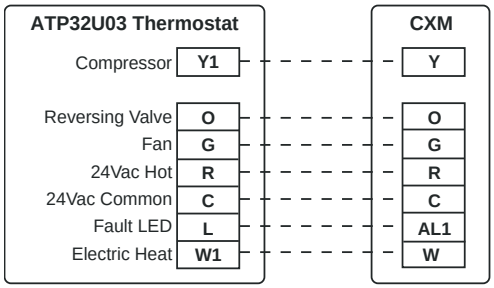
- Maximum current for each output is 1.0 Amp (2.0 max. output total).

ATP32U03

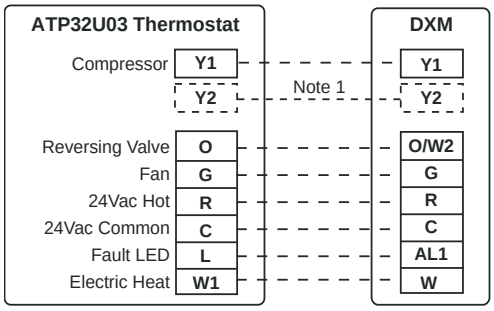
Three Heat / Two Cool, Manual / Auto Changeover Programmable

Single-Stage Units

Connection to CXM Control



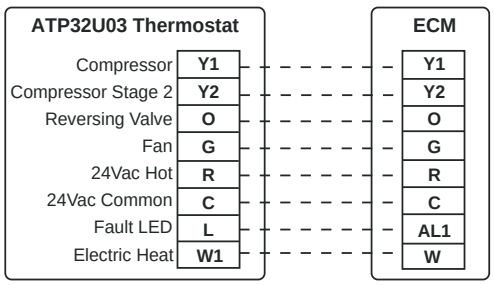
Connection to DXM Control



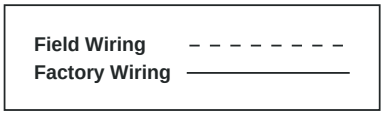
Single stage unit with PSC or belt drive fan motor
Note 1: Y2 may be used for High Speed fan for units with direct drive motor

Two-Stage Units with ECM Fan

Connection to ECM Control



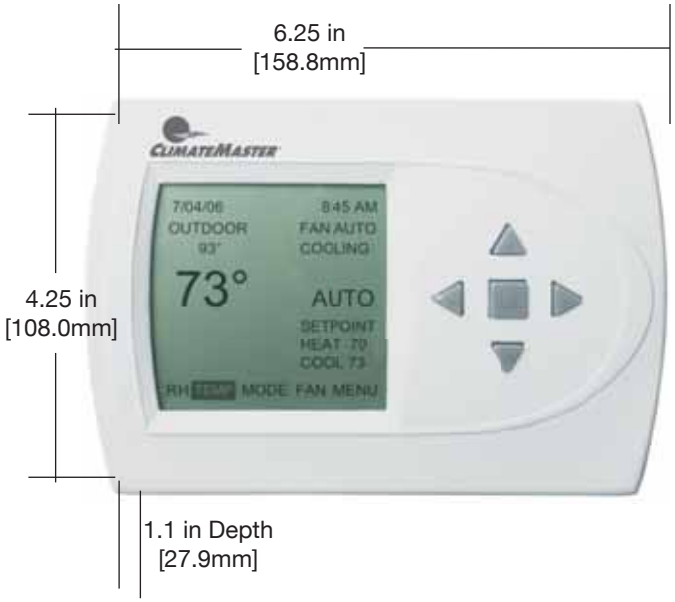
Units with CXM or DXM board and ECM fan motor



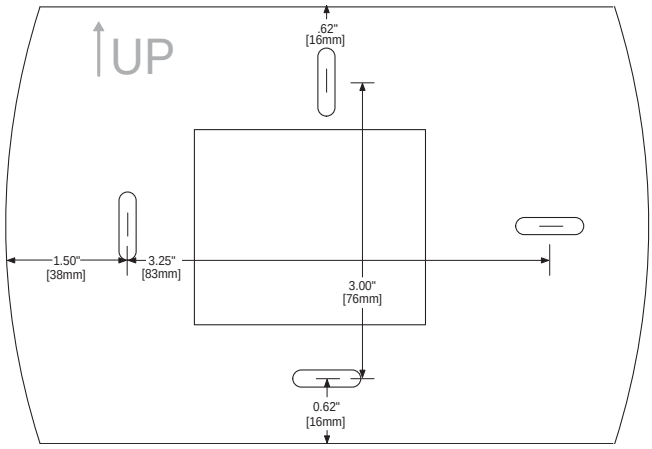
See equipment wiring diagram for more details

ATP32U04

Three Heat / Two Cool, Manual / Auto Changeover
Programmable (7 Day) - With Humidity Control



Mounting:



Application:

The ATP32U04 Thermostat provides 3 stages heating, 2 stages of cooling, and programmable temperature/humidity control of 24V water-source heat pump equipment.

Features:

- 7-day programming
- Dehumidification output is designed to work with Whole House Dehumidification Modulating Reheat option or with ECM fan motor dehumidification mode
- Integrated control of both temperature and relative humidity
- Integrated control eliminates separate thermostat and dehumidistat/humidistat
- Thermostat can be programmed to use humidification output to control a humidifier
- Selectable differential or proportional integral operation

Features (cont.):

- Four periods per day
- ºF or ºC temperature display
- 12 or 24 hour clock
- Individual heat and cool set points
- Zero temperature droop performance
- Automatic (program mode) or manual (HOLD) operation
- Convenient overrides allow temporary set point changes
- Set points are permanently held in memory (no batteries used) and retained during power outages
- Room temperature offset adjustment
- Progressive Recovery anticipates the time required to bring the space temperature to the next programmed event, and brings on the heat pump accordingly
- Large backlit dot matrix display is activated whenever a key is pressed and remains on for 25 seconds
- Menu-driven programming with five navigation buttons (UP/DOWN/LEFT/RIGHT/SELECT) for ease of use
- Fault indication with red backlight display
- Configurable service interval messages and servicing contractor contact information
- Keypad lockout
- Back-plate wiring connections for easy installation
- Exclusive fault identification (When used with CXM or DXM) displays fault from CXM/DXM board (e.g. condensate overflow) and suggests possible causes
- Compatible with AST008 sensor for use as remote and/or outdoor sensor
- Dual fuel capable

Specifications:

Electrical Rating:

- Input Power: 18 to 30 VAC, 50/60 Hz

Operating Conditions:

- 32ºF to 104ºF [0ºC to 40ºC]
- 10% to 95% non-condensing

Temperature Settings:

- Set point range: 40ºF to 90ºF [4ºC to 32ºC], +/- 2ºF [1ºC]
- Dehumidification set point range: 15% to 95% RH
- Humidification set point range: 10% to 45% RH

Output Ratings:

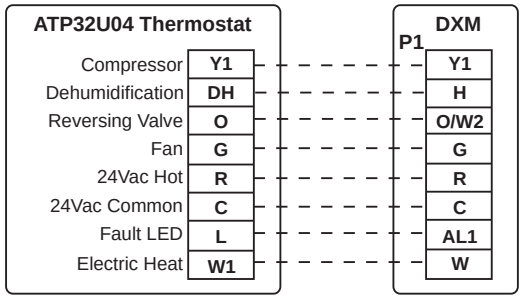
- Maximum current for each output is 1.0 Amp (2.0 max. output total).

ATP32U04

Three Heat / Two Cool, Auto / Manual Changeover
Programmable (7 Day) - Non-Programmable, With Humidity Control

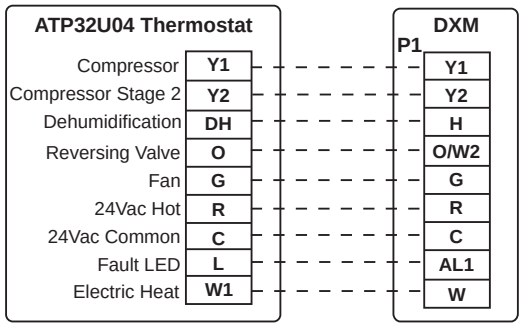
Units with Whole House Dehumidification Reheat

Connection to DXM Control (PSC Fan)



Single stage unit with ClimaDry Modulating Reheat Option and PSC fan

Connection to DXM Control

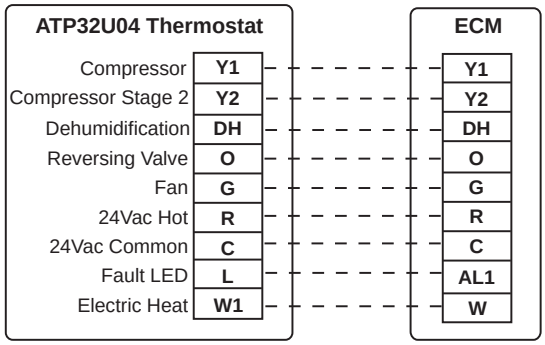


Two-stage unit with ClimaDry Modulating Reheat Option and DXM board

Field Wiring – – – – – – –
Factory Wiring ———————

Units with ECM Fan

Connection to ECM Control

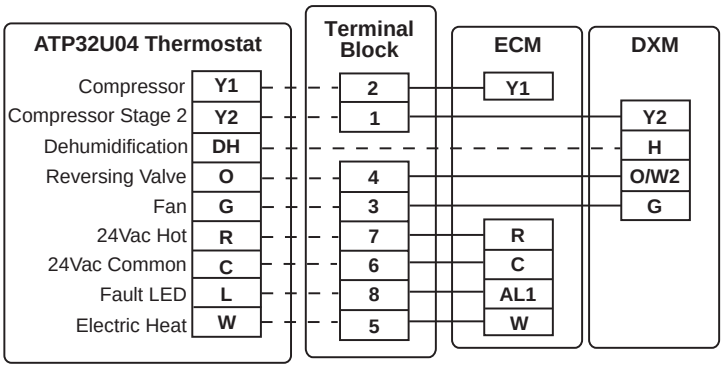


Units with CXM or DXM board and ECM fan motor, utilizing ECM dehumidification mode (w/o ClimaDry option)

Notes:
1) ECM dehumidification mode slows down fan speed in the cooling mode when dehumidification output from thermostat is active. Normal heating and cooling fan speeds are not affected.
2) ECM board DIP switch SW9 must be in dehumid. mode.

Units with Whole House Dehumidification Reheat & ECM Fan

Connection to ECM & DXM Control

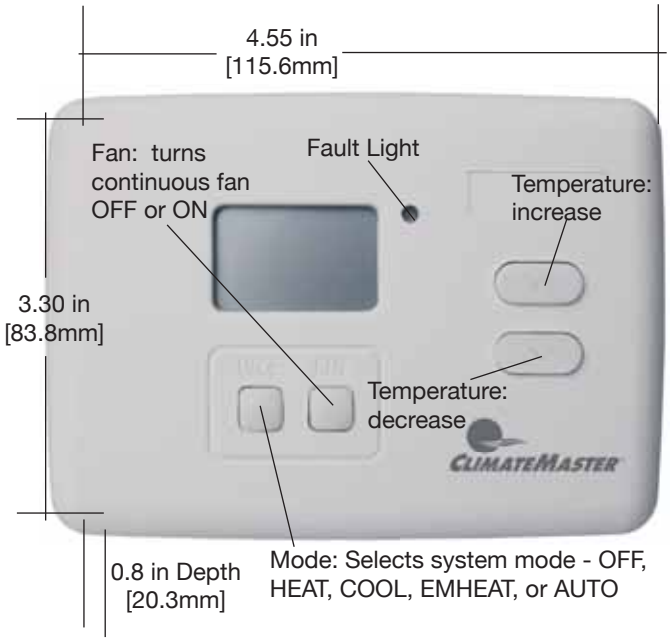


Single or two-stage unit with ClimaDry Modulating Reheat Option and DXM board (ECM fan motor)

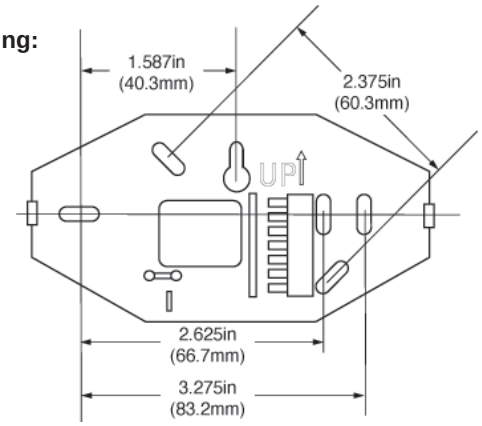
See equipment wiring diagram for more details

ATA21U01

Two Heat / One Cool
Auto / Manual Changeover - Non-Programmable
For use with Single-Stage Units



Mounting:



Application:

The ATA21U01 electronic thermostat provides two-stage heat / one stage cool, non-programmable temperature control for 24V water-source heat pump systems.

Features:

- Heat-Off-Cool-Em Heat-Auto System selections.
- Fan-On-Auto selections.
- °F or °C temperature display.
- Configurable automatic or manual changeover operation.
- Light emitting diode (LED) for alarm status.
- Installer setup options allow for customized applications.
- Zero temperature droop performance.
- Temperature display adjustment feature provides display offset for custom applications.
- Setpoints are permanently held in memory (no batteries used) and retained during power outages.
- Extended fan operation feature can be used to operate fan for 90 seconds after “Y” turns off.

Features (cont.):

- Setup feature allows either “current room temp” or the “current setpoint” to be displayed.
- Optional safety setpoints ensure that heating and cooling will occur even if thermostat is in “Off” mode.
- Backplate wiring for easy installation.

Specifications:

Electrical Rating:
- Input Power: 18 to 30 Vac, 50/60 Hz.

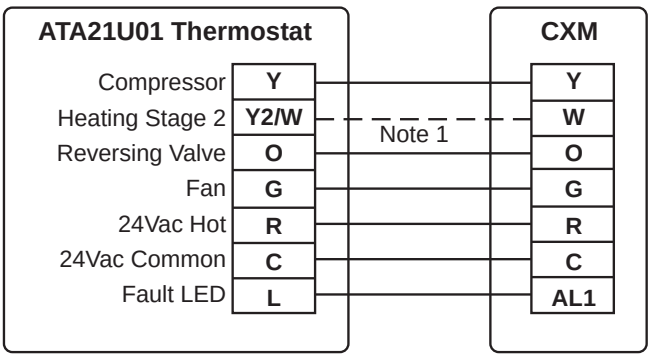
Temperature Settings:
- Setpoint Range: 50°F to 90°F [10°C to 32°C].
- The default setpoint for heating is 70°F [21°C] and for cooling is 74°F [23°C]. Press the ▲ or ▼ keys to change the setting. To change between heat and cool settings, press the mode key until the setting to be changed appears.

Display Range:
- Display Updates: Controlled: updated every 12 seconds.
- Differential (autochangeover model): 3°F [1.5°C] minimum.

Output Ratings:
- Maximum current for each output is 1 Amp.

Wiring:

Connection to CXM Control



Note 1: Optional Connection for Heating Stage 2 operation, Thermostat "Y2" option must be configured as "Y2 - Off".This configuration uses the compressor only for 1st stage heating and compressor plus auxilliary heat for 2nd stage operation. The thermostat is configured as a two stage heat / one stage cool thermostat for single speed units with PSC fan and backup heat. For two-stage units with backup heat or units with ECM fan and backup heat, a 3 stage heat / 2 stage cool thermostat is required.

Unit Accessories

Item/Description	Part Number	TE, TT, TS Models				TZ Models			TAH Models			
Auxiliary/ Emergency Heaters		018	024-030	036-038	042-072	024	030-042	048-060	Auxiliary Electric Heat Model*	026	038	049-064
Internally mounted in vertical cabinets. Externally mounted on horizontal cabinets. Sizes 15-20 kW AGM*A and 4-20 kW AGM*C include internal circuit breaker. ETL listed. Circuit fusing per UL/ NEC. Wiring harness connections included in residential units.	AGM4A	■	■			■	■		AGM4C	■		
	AGM5A	■	■			■	■		AGM5C	■		
	AGM8A		■			■	■		AGM8C	■		
	AGM10A		■			■	■		AGM10C	■		
	AGM12A						■					
	AGL10A			■	■			■	AGL10C		■	■
	AGL15A			■	■			■	AGL15C		■	■
	AGL20A				■			■	AGL20C			■

Grey area denotes compatibility
Note: Horizontal units rated for zero clearance unit and 1" clearance for the first three feet of duct, Vertical units rated for zero clearance for both unit and duct.
* Can be used on corresponding TZ, TE, TS and TT models

Unit Vibration Isolation Pad		TE, TT, TS and TES, TTS Models		TZ Models	
		018-030	036-072	024-030	036-060
High density rubber pad for quiet operation.	AUQSP2424			■	
	AUQSP2427	■		■	
	AUQSP2732		■		■

Packaged Unit Stand		TE, TT, TS, and TES, TTS Models	
		018-030	036-072
Ideal for areas that must have raised equipment to meet required mechanical codes.	ACSVAMBS		■
	ACSVALBS	■	

Packaged Secondary Horizontal Unit Drain Pan		TE, TT, TS			
		018-030	036-038	042-049	060-072
Designed specifically for Tranquility® Horizontal footprints. Matches the unit for open ceiling applications and to meet mechanical codes.	ASDPADBS		■	■	■
	ASDPACBS	■		■	■
	ASDPABBS	■	■		■
	ASDPAABS	■	■	■	

Unit Accessories

Pump Slaving Module		
Module w/NEMA enclosure - Allows a single flow controller to be controlled by 2 different units. Eliminates additional field wiring and extra relays.	APSM	For use with TT, TS, TTS, TMW & TMW Models. Not applicable with Tranquility® Digital units.

SecureStart Compressor Soft Start Kit		
Item Description	**Part #**	**Used With Models**
Single phase compressors typically have starting inrush currents that range from five to seven times their normal running current. The SecureStart™ module is designed to reduce inrush current to the compressor by up to 75% and prevents lights dimming when the compressor starts up.	13B0045N01	All

Remote Thermostat Sensor		
Item Description	**Part #**	**Used with Models**
Outdoor Temperature Sensor	AST008	ATA31U01, ATP, ATC thermostats only

Anti Scald Valve		
Item Description	**Part #**	**Used With Models**
Anti-scald valve be used in DHW systems where HWG set-point is 150°F	AVAS4	All

Communicating Thermostat Configuration Diagnostic Tool		
Item Description	**Part #**	**Used With Models**
For use when communicating thermostat is not used.	ACDU01	TE, TZ, TES, TEP

Remote Mount HWG (Desuperheater) Kit for Tranquility® Outdoor		TEP				TTP			
		026	038	049	064	026	038	049	064
*Desuperheater coil, pump & controller, mounted in conditioned space.	AHWG1BASS (115 VAC)								
	AHWG1BGSS (230 VAC)								
	AHWG1AASS (115 VAC)								
	AHU1BASS (230 VAC)								

*Dealer supplied line set required

Loop Accessories

Closed Loop Accessories

AFC4I

AFC4C

AFC6F

Flow Controller
Double O-Ring Connections

Hose Kit
AHK5EC

AFC4T

AFC5F

Hose Kit
AHK5PE

Extra Large Closed Loop Accessories

AFCG2B3

AFCG2B4

Open Loop Accessories

Plastic Solenoid
Valve - AVSP5

Brass Motorized
Valve - AVMB5

Flow Regulator
AFRV*

P/T Plug
70022002
& 70022003

Loop Accessories

Loop Accessories				
Description			Part Number	Accessory Includes
Closed Loop Accessories	Flow Controllers	Composite 3-way valves	AFCG1C1	1-GRUNDFOS UP26-99 PUMP
			AFCG1C2	1-GRUNDFOS UP26-116 PUMP
			AFCG2C1	2-GRUNDFOS UP26-99 PUMP
			AFCG2C2	2-GRUNDFOS UP26-116 PUMP
		Brass 3-way valves	AFCG1B1	1-GRUNDFOS UP26-99 PUMP
			AFCG1B2	1-GRUNDFOS UP26-116 PUMP
			AFCG2B1	2-GRUNDFOS UP26-99 PUMP
			AFCG2B2	2-GRUNDFOS UP26-116 PUMP
	Double O-ring Adaptor fittings, Set of Two (One set Required for All Flow Controllers for Loop Connection)	Fusion	AFC5F	1.00” PE SOCKET FUSION
			AFC6F	1.25” PE SOCKET FUSION
		Insert	AFC4I	1.00” BRASS BARD INSERT
			AFC6I	1.25” BRASS BARD INSERT
		Cam	AFC4C	1.00” CAM LEVER - for flush connections
		Thread	AFC4T	1.00” MPT BRASS THREAD
	Flow Controller - Hose Kits & Fittings	Hose Kit	AHK5EC	Includes double O-ring x 1.00” barb insert for connection to Flow Controller, 1.00” MPT x 1.00” barb insert el w/PT port for unit connection, & 10’ of 1.00” rubber hose.
		Additional Hose	ARH510	10’ of 1.00” Rubber Hose
			ARH550	50’ of 1.00” Rubber Hose
	vFlow Hose Kits	Hose Kit	AHK5PE	Includes(2) 1/4” PT Plugs, (12’) 1” ID Black Hose, (8) Stainless steel hose clamps, (2) Elbow, 1” MPT x 1” Hose Barb w/PT Port, (1) Fitting Set (2 Fittings), 1-1/4” PE Fusion x 1” Hose Barb Brass, Crimped, (2) Elbow Insulating Boots w/sealing caps
Open Loop Accessories	Solenoid & Motorized Valves		AVSP5	1.00” FTP, 24 VAC-Solenoid Valve, Plastic
			AVMB4	0.75” FTP, 24 VAC-Motorized Valve, Brass w/end switch safety controls
			AVMB5	1” SWT, 24 VAC- Motorized Valve, Brass w/end switch safety controls
			AVMB-PH	Powerhead
	Flow regulators		AFRV*	2 GPM-10 GPM are Brass 0.75” FPT *Specify GPM when ordering. Example 6gpm = AFR6 Call Factory for pricing and availibility for larger than 9 gpm-
	Pressure/Tempature Ports		70022002	Brass 0.25” MPT - Qty.1

Extra Large Loop Accessories

New Geo Loop Pumps are for larger residential projects or small commercial applications where smaller flow controllers can not deliver desired flow rates. All pumps are 3 speed models for field flow adjustment and are 230 / 1 phase power. GPM and feet of head ratings are at high speed / maximum capacity.

Extra Large Loop Accessories				
Description			Part Number	Accessory Includes
Closed Loop Accessories	Flow Controllers	Brass 3-way valves	AFCG1B3	1-GRUNDFOS UP32-160 PUMP
			AFCG2B3	2-GRUNDFOS UP32-160 PUMP
			AFCG2B4	2-GRUNDFOS UP60-150 PUMP
	Double O-ring Adaptor fittings, Set of Two (One set Required for All Flow Controllers for Loop Connection)	Fusion	AFC7F	2.00” PE SOCKET FUSION
		Cam	AFC7C	1.50” CAM LEVER - for flush connections
		Thread	AFC8T	2.00” FPT BRASS THREAD
	Flow Controller - Hose Kits & Fittings	Hose Kit	AHK8ES	2” Hose Kit w/ Strainer
			AHK8E	2” Hose Kit

Installation Accessories

Installation Accessories	
Part Number	**Description**
AFCG1PT	Geo Prime Tank
AFCG2PT	Pressure Battery Expansion Tank
AGOFL	Geo-Gooser Kit
AFCG1BT	Geo-Booster
AGOFC	Flush Cart
AG1DC	Functional Geo Display Cart for use at trade show and training events. This display is intended only for 2 and 3 ton vertical upflow units with an internal pump. Heat pump not included. This is a drop ship item

Geo Prime Tank

The Geo Prime Tank allows the use of normal pressurized flow controllers as a “non-pressurized” ground loop system. The Prime Tank installs above the normal flow controller and maintains a column of liquid at the pump’s inlet.

Pressure Battery

Pressure Battery/ Expansion Tank is designed to allow for expansion and contraction of the loop. The tank expands using an internal diaphragm in summer and contracts in the winter to exert/absorb pressure in the loop.

Geo-Gooser Kit w/Elbows

Geo Gooser Kit provides an easy means to re-pressurize the loop field by adding liquid into the loop field through a pressure / temperature port without a flush and fill process.

Geo-Booster

Geo Booster is designed to maintain a minimum pressure on ground loop systems that uses an antifreeze solution. The internal pump forces fluid into the loop system from a one gallon internal storage tank if static pressure drops below 35 PSI.

Flush Cart

Flush Cart is used during initial loop fill and flush procedure to fill the loop and then circulated to remove any air or debris in the loop system.

Geo Display Cart

Functional Geo Display Cart for use at trade show and training events. This display is intended only for 2 and 3 ton vertical upflow units with an internal pump. Heat pump not included. This is a drop ship item.

Geothermal Loop Pipe

Geothermal Loop Pipe Features:
- Designed for socket or butt fusion connection
- Internal banding for easy handling and control
- 160 psi
- 50 year warranty
- Coils marked in 2 foot increments
- NSF Geothermal Certification

Specifications for ClimateMaster Geothermal Loop Pipe & Fittings

General: All pipe and heat fused materials are manufactured from a virgin, high density, polyethylene 3408 material manufactured in accordance with ASTM D-2513 sections 4.1 and 4.2. Pipe shall be manufactured to outside diameters, wall thickness, and respective tolerances as specified in ASTM D-3035, D-2447 or F-714.

Material: The material shall maintain a 160 psi Hydrostatic Design Basis at 73.4°F per ASTM D-2837. This material shall be a high density, polyethylene 3408 having a cell classification of PE345434C as specified in ASTM D-3350. ClimateMaster acknowledges Solvay Polymers, Inc.,Houston, TX, as the primary supplier of high density polyethylene resin (K44-15-23) specifically for this use.

U-Bend Coils

100’ Pipe Bundle

Spaced Pond Loop Coils

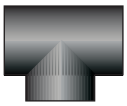
Geothermal Loop Pipe					
Part Number	**Pipe Diameter**	**Pipe Length**	**Package Type**	**Pipe Type**	**Coils Per Pallet**
GP4L100	0.75” IPS	100	Bundle 5x20’	SDR11	N/A
GP4C200	0.75” IPS	200	Coil	SDR11	13
GP4C300	0.75” IPS	300	Coil	SDR11	10
GP4C500	0.75” IPS	500	Coil	SDR11	8
GP4C600	0.75” IPS	600	Coil	SDR11	8
GP4C800	0.75” IPS	800	Coil	SDR11	8
GP5L100	1.00” IPS	100	Bundle 5x20’	SDR11	N/A
GP5C300	1.00” IPS	300	Coil	SDR11	10
GP5C500	1.00” IPS	500	Coil	SDR11	6
GP6L100	1.25” IPS	100	Bundle-5x 20’	SDR11	N/A
GP6C100	1.25” IPS	100	Coil	SDR11	14
GP6C300	1.25” IPS	300	Coil	SDR11	14
GP8L100	2.00” IPS	100	Bundle-5x20’	SDR11	N/A
GP8C100	2.00” IPS	100	Coil	SDR11	10
GP8C300	2.00” IPS	300	Coil	SDR11	7
Coils with U-Bend Attached					
GP4C350U	0.75” IPS	350	2-175’ Coils	SDR11	12
GP4C410U	0.75” IPS	410	2-205’ Coils	SDR11	10
GP4C510U	0.75” IPS	510	2-255’ Coils	SDR11	8
GP5C410U	1.00” IPS	410	2-205’ Coils	SDR11	8
GP5C510U	1.00” IPS	510	2-255’ Coils	SDR11	8
GP5C610U	1.00” IPS	610	2-305’ Coils	SDR11	8
GP5C710U	1.00” IPS	710	2-355’ Coils	SDR11	8
GP5C810U	1.00” IPS	810	2-405’ Coils	SDR11	8
Spaced Pond Loop Coil					
GP4S300	0.75” IPS	300	Coil	SDR11	5

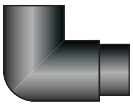
Geothermal Fittings

Part Number	Description	Box Quantity
Fusion Coupling		
GFC44	0.75” x 0.75”	120
GFC55	1.00” x 1.00”	80
GFC64	1.25” x 0.75”	50
GFC65	1.25” x 1.00”	50
GFC66	1.25” x 1.25”	40
GFC85	2.00” x 1.00”	30
GFC86	2.00” x 1.25”	30
GFC88	2.00” x 2.00”	30
Fusion Elbow 90 degrees		
GFE44	0.75” x 0.75”	70
GFE54	1.00” x 0.75”	50
GFE55	1.00” x 1.00”	50
GFE64	1.25” x 0.75”	100
GFE66	1.25” x 1.25”	90
GFE88	2.00” x 2.00”	30
Fusion Tee		
GFT444	0.75” x 0.75” x 0.75”	75
GFT555	1.00” x 1.00” x 1.00”	50
GFT644	1.25” x 0.75” x 0.75”	70
GFT655	1.25” x 1.00” x 1.00”	60
GFT664	1.25” x 1.25” x 0.75”	60
GFT665	1.25” x 1.25” x 1.00”	60
GFT884	2.00” x 2.00” x 0.75”	25
GFT885	2.00” x 2.00” x 1.00”	25
GFT888	2.00” x 2.00” x 2.00”	25
Fusion U-Bend Fitting		
GFEU44	0.75” x 0.75” Street el	120
GFEU55	1.00” x 1.00” Street el	200
GFEU66F	1.25” x 1.25” Short female	90
GFEU66M	1.25” x 1.25” Short male	90
GFU44	0.75” U-Bend Bullet	1
GFU55	1.00” U-Bend Bullet	1
GFU66	1.25” U-Bend Bullet	1
Fusion Cap		
GFCP4	0.75”	160
GFCP5	1.00”	160
GFCP6	1.25”	100
GFCP8	2.00”	30
Fusion Header - Pre Assembled		
GFK644K02	1.25” Inlet x (3) 0.75” Outlets	15
GFK644K03	1.25” Inlet x (4) 0.75” Outlets	20
GFK644K04	1.25” Inlet x (5) 0.75” Outlets	20
GFK644K05	1.25” Inlet x (6) 0.75” Outlets	20

Coupling

Elbow


Tee


U-Bend Fitting

Cap

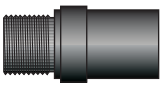
Bullet Fitting

Header

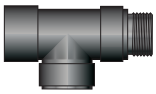
Geothermal Fittings

Part Number	Description	Box Quantity
Fusion X Male Nominal Thread X FPT		
GFMT453	0.75” x 1.00” MNT x 0.50” FPT	40
GFMT553	1.00” x 1.00” MNT x 0.50” FPT	50
Fusion X Male Swivel Adapter - For use w/90B0001N02		
GFMC56S	1.00” Fusion x 1.25” Brass Swivel NPT	30
GFMC66S	1.25” Fusion x 1.25” Brass Swivel NPT	20
Fusion X Male Adapter		
GFMA44	0.75” x 0.75” MPT Brass	30
GFMA55	1.00” x 1.00” MPT Brass	20
GFMA65	1.25” x 1.00” MPT Brass	25
GFMA66	1.25” x 1.25” MPT Brass	30
GFMA88	2.00” x 2.00” MPT Brass	30

Swivel Adaptor



Male Adaptor

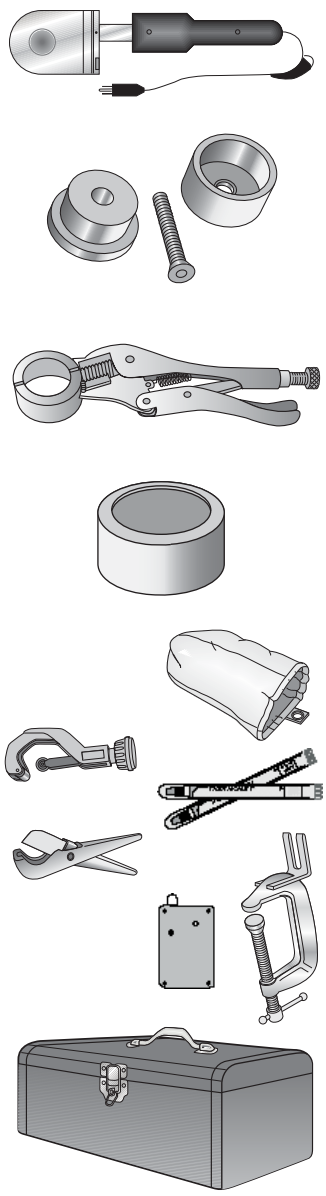


Male Adaptor Tee

Socket Fusion Tools

Socket Fusion Tools	
Part Number	**Description**
Heating Tool	
HVTD48	Fusion Tool, Double Socket Face
Socket Face	
HSF4P	0.75” IPS
HSF5P	1.00” IPS
HSF6P	1.25” IPS
HSF8P	2.00” IPS
Cold Ring	
HCR4P	0.75” IPS
HCR5P	1.00” IPS
HCR6P	1.25” IPS
HCR8P	2.00” IPS
Combo Depth Gauge and Chamfer Tool	
HDC4P	0.75” IPS
HDC5P	1.00” IPS
HDC6P	1.25” IPS
HDC8P	2.00” IPS
Fusion Tool Accessories	
HMB	Fusion Tool Mounting Bracket
HFT	Fusion Timer
HHB	Fusion Tool Cover
HS500	Tempstik 500*F
HS525	Tempstik 525*F
Complete Fusion Kits	
HHAK46WDP	0.75” & 1.25” IPS - Double
HHAK468WDP	0.75”, 1.00”, 1.25” & 2.00” IPS - Double

Kits Include: Heating tool, socket face set, depth gauge, cold rings, hex keys, tubing cutter, screwdriver, tempsticks, timer, tool bag cover, cotton wipe bag.

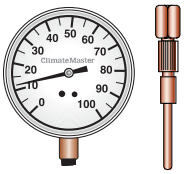


Service Tools

Item	Part Number	Description
Temperature Measurement	ADT160	Digital Thermometer for use with P/T Ports
Pressure Measurement	APG100	Pressure Gauge, 0-100 psi
Gauge Probe Adapter	APTGA	P/T Port Adapter for use with APG100
Alcohol Anti-Freeze Tester (.9-1)	AHYDA	Specific Gravity Hydrometer
Glycol Anti-Freeze Tester (1-1.07)	AHYDG	Specific Gravity Hydrometer
Water Pressure Gauge	AG1PG	Water Pressure Gauge for use with Digital units

Digital Thermometer

Anti-Freeze Tester



Pressure Gauge and Adapter

Service Parts Kit

Item	Part Number	Description
Residential Service Parts Kit	ASPK	Designed to provide inexpensive parts for dealers. Contains emergency installation and service parts for Residential units and Flow Controllers.
Residential Service Parts Kit	ASPK1	ASPK plus DXM2 and related harnesses

Cabinet Samples

Part Number	Description
SAMPLECABTZV036	Low cost, lightweight display unit to take to home shows, county fairs, or for use in a showroom.
SAMPLECABTEV038	
SAMPLECABTTV026	
SAMPLECABTTV049	
SAMPLECABTMW060	

Cabinet Sample

Filters

MERV 11 Replacement Filters

TEH, TTH & TSH - Horizontal Units			TEV/D, TTV/D & TSV/D - Vertical Units		
018 - 030	2 - 18 x 18	76B0005N01	018	1 - 24 x 24	76B0005N08
036 - 038	1 - 12 x 20	76B0005N02	024 - 030	1 - 24 x 28	76B0005N14
	1 - 20 x 25	76B0005N09	036 - 038	1 - 28 x 30	76B0005N15
042 - 049	1 - 18 x 20	76B0005N04	042 - 049	1 - 30 x 32	76B0005N19
	1 - 20 x 24	76B0005N07	060 - 072	1 - 30 x 36	76B0005N20
060 - 072	2 - 20 x 24	76B0005N07			

MERV 8 Replacement Filters

TZH - Horizontal Units			TZV - Vertical Units		
024 - 030	1 - 18 x 24	76B0015N07	024 - 030	1 - 20 x 20	76B0015N01
036 - 042	1 - 14 x 20	76B0015N05 Qty 2	036 - 042	1 - 24 x 24	76B0015N02
048 - 060	1 - 20 x 38	76B0015N06 and 76B0015N05	048 - 060	1 - 28 x 28	76B0015N03

These are nominal Sizes: Actually sizes are slightly smaller.

Notes

Notes

Notes

Revision History

Date	Page #	Description
20 Feb. 13	All	Updated
16 July 12	553-554	ATC32U01 Added
28 May, 10	558	New Rev. C Auxiliary/Emergency Heaters Added
12 May, 09	556, ATP32U04 Page	New Thermostat Model Added
05 June, 08	All	Reformatted Document Size
04 Mar, 07	560	Changed Part Number and Description for Outdoor Split Flow Controller Transition Fittings
04 Mar, 07	561	Discontinued 90B0001N02 Fitting
01 Oct, 06	All	First Published